

CLAIMS

1. A pressure control valve for an automatic transmission of a motor vehicle, comprising a valve unit (10) extruded from plastic, wherein said valve unit (10) is arranged coaxially to an actuator unit and serves to control a fluid flow between a supply port (18) and a consumer port (16), and wherein fluid channels (24, 25) and a valve chamber (28) are formed in the valve unit (10), wherein a valve closing member (30) is disposed in the valve chamber (28), and wherein the fluid channels (24, 26) and the valve chamber (28) are formed on an injection-molded preform (22) that is injected into a flange (12).

2. The pressure control valve according to claim 1, wherein the preform (22) has a seating plate (34), wherein said seating plate is oriented at a right angle to a longitudinal axis (32) of the valve unit (10).

3. The pressure control valve according to claim 1, wherein the preform (22) has at least one plane of symmetry.

4. The pressure control valve according to claim 1, wherein the valve closing member (30) is a sphere.

5. The pressure control valve of claim 1, wherein the valve closing member (30) can be actuated by means of a slide valve, wherein said slide valve penetrates the preform (22) at least partially in an axial direction.

6. Method for manufacturing a pressure control valve with a valve unit (10) extruded from plastic and which serves for controlling a fluid flow between a supply port (18) and a consumer port (16), and wherein fluid channels (24, 26) and a valve chamber (28) are formed in the valve unit (10), comprising the following steps:

- manufacturing an injection molded preform (22), wherein the fluid channels (24, 26) and the valve chamber (28) are formed on the preform (22);
and

- extrusion-coating the preform (22) with a flange (12), wherein the consumer port (16) and the supply port (18) are formed on the flange (12).

7. The method according to claim 6, wherein before extrusion-coating of the preform (22) with the flange (12), a valve closing member (30) is inserted into the valve chamber (28) of the preform (22).

8. The method according to claim 6, wherein openings or mouths of the fluid channels (24) and the valve chamber (28) of the preform (22) are sealed before extrusion-coating with the flange (12).